



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 47 ] नई दिल्ली, शनिवार, नवम्बर 28, 1981 (अग्रहायण 7, 1903)  
No. 47 ] NEW DELHI, SATURDAY, NOVEMBER 28, 1981 (AGRAHAYANA 7, 1903)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

#### THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 28th November 1981

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE—214, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700 017.

The dates shown in crescent brackets are the dates claimed  
under Section 135. of the Act.

22nd October 1981

- 1174/Cal/81. Standard Hose Limited. Flexible hose. (October 22, 1980).  
1175/Cal/81. International Telephone and Telegraph Corporation. (September 22, 1981).  
1176/Cal/81. International Telephone and Telegraph Corporation. Digital two-to-four wire converter for full duplex signals. (September 22, 1981).  
1177/Cal/81. International Telephone and Telegraph Corporation. Automatic equalizer for synthetic recursive filters. (September 22, 1981).  
1178/Cal/81. International Telephone and Telegraph Corporation. Telephone line circuit. (September 22, 1981).  
1179/Cal/81. Avulunga Pty Ltd. Improved laryngoscope. (November 11, 1980).  
1180/Cal/81. Georg Fischer Aktiengesellschaft. Apparatus for continuous processing of workpiece. [Divisional date April 26, 1979].  
1181/Cal/81. Eastern Carbon. Improved bechieve coke oven battery. [Divisional date August 31, 1978].

1—347GI/81

23rd October, 1981

- 1182/Cal/81. A. Feraillle. Wind-engine.  
1183/Cal/81. The Marley Company. Film fill sheets for water cooling tower having integral spacer structure.  
1184/Cal/81. The Marley Company. Drift eliminator structure for counterflow water cooling tower.  
1185/Cal/81. Neiman S. A. Key operated locking mechanism. (September 16, 1981).

24th October, 1981

- 1186/Cal/81. Elkem A/s. Electrode holder assembly for self-baking electrodes.  
1187/Cal/81. Amsted Industries Incorporated. Fully dense alloy steel powder.  
1188/Cal/81. Brugman Machinenfabrik B. V. A method of and an installation for processing a web of material, while applying the flow-through principle.  
1189/Cal/81. D. K. Sinha. Directly mounted, uni-axial, variable speed drive for small cars, with reverse gear.  
1190/Cal/81. D. K. Sinha. New bicycle with spring suspensions, self-servo brakes and nippleless spokes.  
1191/Cal/81. D. K. Sinha. New type of fish-plate for rail tracks.  
1192/Cal/81. D. K. Sinha. Directly mounted unit-axial variable speed gear drive for two-wheelers.  
1193/Cal/81. D. K. Sinha. Uni-axial variable speed gear drive for bicycles.

26th October, 1981

- 1194/Cal/81. Outokumpu Oy. Brickwork construction.
- 1195/Cal/81. Lonza Ltd. 22-dichloroacetoacetyl chloride and a process for the preparation thereof.
- 1196/Cal/81. Shell Internationale research Maatschappij B. V. A process for the preparation of hydrocarbons.
- 1197/Cal/81. Hemex, Inc. Heart Valves having edge-guided occluders.

28th October, 1981

- 1198/Cal/81. Metallgesellschaft. A. G. Method and apparatus for heating up a tubular reactor.
- 1199/Cal/81. Atlas Copco Aktiebolag. Method of rock bolting and a combination of a rock bolt and an installation device for same.
- 1200/Cal/81. B. Sinha. Apparatus for measuring and indicating the fluid level in vessels.
- 1201/Cal/81. Deutsche Texaco Aktiengesellschaft. Process for the continuous production of secondary butyl alcohol.
- 1202/Cal/81. BASF Aktiengesellschaft. Preparation of saccharin.
- 1203/Cal/81. Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Twin-packing unit for track packing machine.
- 1204/Cal/81. Indian Explosives Limited, The Alkali and Chemical Corporation of India Limited and Chemicals and fibres of India Limited. A process for the catalytic hydrogenation of aromatic compounds by anion exchange resin supported carbonyl clusters.

APPLICATIONS FOR PATENT FILED AT PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-5.

16th September, 1981

- 594/Del/81. National Research Development Corporation, "Apparatus and Methods for Controlling Induction Motors". (Sept. 26, 1980, Feb. 6, 1981, & June 29, 1981).
- 595/Del/81. Dorr-Oliver Incorporated. "Fluidized Bed Reactor with Vertical Cooling Coils".

17th September, 1981

- 596/Del/81. Shri Ram Institute for Industrial Research, "A Process for Making of Carboxy Methyl Starch".
- 597/Del/81. Shri Ram Institute for Industrial Research, "A Process for Making of Carboxy Methyl Starch".
- 598/Del/81. National Research Development Corporation of India. "A Process for the Preparation of Copoly-carbonates of Bisphenol-A and Tetrachloro Bisphenol-A".
- 599/Del/81. National Research Development Corporation of India. "A Process for the Preparation of Copoly-carbonates of Bisphenol-A and Tetrabromo Bisphenol-A".
- 600/Del/81. Sachindra Nath Sen. "An Electrically Operated Burglar Alarm Device".
- 601/Del/81. Sachindra Nath Sen. "An Electrical Thermostat".
- 602/Del/81. M&T Chemicals Inc., "Bis (Substituted Phenyl) Alkyltin Compounds".
- 603/Del/81. Automatic Material Handling, Inc., "Fiber Feeding Apparatus with Fiber Leveling Means".

21st September, 1981

- 604/Del/81. Council of Scientific and Industrial Research. "Improvements in or relating to a process for making laminated material using wood and anodised aluminium".

- 605/Del/81. Tesa S. A. "Comparator with Pivoting Feeler".
- 606/Del/81. Blounthurst Limited, "A Clip for Securing Hose-pipes and Like Uses".

22nd September, 1981

- 607/Del/81. Klockner-Humboldt-Deutz Aktiengesellschaft, "Gas Flotation Process and Apparatus".
- 608/Del/81. Klockner-Humboldt-Deutz Aktiengesellschaft, "Method for Controlling or Regulating Sorting Plants".
- 609/Del/81. Jose Luis Ramo Mesple, "Water Desalination System by Reverse Osmosis with Pressure Recuperation".
- 610/Del/81. Council of Scientific and Industrial Research, "Process for the production of cathodic electrocoat-ings on metal substrates of alkyd resins".

23rd September, 1981

- 611/Del/81. Rob Van Den Haak, "Anchor".

24th September, 1981

- 612/Del/81. Sir Padampat Research Centre, A Division of J. K. Synthetics Ltd., "Apparatus for Texturing".

24th September, 1981

- 613/Del/81. Sir Padampat Research Centre, A Division of J. K. Synthetics Ltd., "Textured Yarn".

25th September, 1981

- 614/Del/81. Kamal K. Oswal, Vimal K. Oswal, Primal Oswal, "An Improved Coupling Device for High Density Polyethylene Pipes".
- 615/Del/81. The Gillette Company, "Shaving Implement, Housing Therefor and Razor".
- 616/Del/81. The Gillette Company, "Shaving Implement".
- 617/Del/81. The Gillette Company, "Shaving Implement".
- 618/Del/81. Uniroyal, Inc., "A Toothed Positive Drive Power Transmission Belt with A Fabric Reinforcement Suspended within the Belt Teeth".
- 619/Del/81. Atul Glass Industries (Pvt.) Ltd., "A Process for the Preparation of Heat Radiation Filters". [Divl. date Sept. 22, 1980].

- 620/Del/81. Stainco Enterprises Pvt. Ltd., "A Distributor Head". [Divl. date August 17, 1980].

28th September, 1981

- 621/Del/81. Nagavi. B. G. and Mithal, B. M., "Production of microcrystalline cellulose from Bagasse".
- 622/Del/81. The Direct Reduction Corporation, "System for Coal Blowing in Iron Oxide Reducing Kilns".
- 623/Del/81. Alcan International Limited, "Electrolytic Refining of Molten Metal". (October 7, 1980).

30th September, 1981

- 624/Del/81. Telefonaktiebolaget L. M. Ericsson, "Arrangement for Adjustably Mounting an Optical Direction Indicator".
- 625/Del/81. Smith Kline & French Laboratories Limited, "Process for Preparing Amine Derivatives". (October 1, 1980).
- 626/Del/81. Escorts Limited, "Hydraulic Braking System".
- 627/Del/81. Council of Scientific and Industrial Research, "An Electrochemical Process for the Preparation of Propylamine Hydrochloride".
- 628/Del/81. Council of Scientific and Industrial Research, "Improvements in or relating to lithium manganese dioxide nonaqueous button cells".
- 629/Del/81. Council of Scientific and Industrial Research, "Improvement in or relating to the preparation of high build paint."

630/Del/81. Council of Scientific and Industrial Research, "Improved Process for the Disproportionation of Toluene to Benzene and Xylenes".

631/Del/81. Council of Scientific and Industrial Research, "An improved anticorrosive paint particularly useful as primer in marine environment."

632/Del/81. Shri Anil Chandra Raha, "A Dryer".

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH AT TODI ESTATES III FLOOR, LOWER PAREL (WEST) BOMBAY-400 013

30th September, 1981

1. 282/Bom/81. P. J. Chaugule.—Manufacturing and engaging cement concrete cavity blocks on civil works for composite monolithic construction.

5th October, 1981

2. 283/Bom/81. Sudhir Malhotra.—Knief grinding attachment for domestic mixer-grinders.

3. 284/Bom/81. Phenoweld Polymer Pvt. Ltd. —A bath tub and process for its manufacture.

12th October, 1981

4. 285/Bom/81. Priyal Khanderao Kulkarni and another.—Improvements in or relating to wrapping of soap cake.

5. 286/Bom/81. P. J. Chaugule.—A building and/or R. C. C. structural entity and method of its construction.

13th October, 1981

6. 287/Bom/81. Ciba-Geigy of India Ltd.—A process for the preparation of pharmacologically active new guanidine derivatives, (Divisional date July 3, 1980.)

15th October, 1981

1. 288/Bom/81. George C. Collis.—Toothbrush.

16th October, 1981

2. 289/Bom/81. Prasanta Ray.—Bi-element reflecting device for focusing of parallel Rays.

19th October, 1981

3. 290/Bom/81. Sudhakar Kashinath Kulkarni and another.—'Diesel-Heart' new rotary fuel injection pump with discharge pipes inline, for use on modern multi-cylinder diesel engines.

4. 291/Bom/81. Manubhai M. Mevada and another.—An invention for folding chair.

5. 292/Bom/81. M/s. Mahavir Appliance.—An improved pressure cooker.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002.

19th October, 1981

192/Mas/81. A. R. Fernandez. Producing Rectified Spirit from Sweet Potato, a new process without using Acids and Alkalies.

21st October, 1981

193/Mas/81. K. Gopalakrishnan. An Improved Hot Water Boiler for Domestic & Commercial Use.

23rd October, 1981

194/Mas/81. K. Gowthaman. A device working on compressed air, composed of Piston and Cylinder for starting internal combustion engines.

195/Mas/81. Lucas Industries Ltd. Improvements in Trap-Line Pressure Valves. (November 1, 1980).

196/Mas/81. Lucas Industries Ltd. Improvements in Trap-Line Pressure Valves. (November 1, 1980).

197/Mas/81. M. Kandasamy. Ratchet Tiller.

24th October, 1981

198/Mas/81. B. Varghese. Grip Track or Track Generating own Adhesion by pressure difference.

199/Mas/81. Lucas Industries Limited. Improvements in Hydraulic Master Cylinders for Vehicle Hydraulic System. (October 29, 1980).

Alteration of Date

149393.

849/Cal/79. Ante-dated, 13th December, 1977. 149408.

92/Cal/80. Ante-dated 11th January, 1978.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 61C & D.

149386.

Int. Cl.-A23f 3/04.

A DEVICE FOR VARYING AND CONTROLLING PRESSURE ON TEA LEAVES PROCESSED IN A CONTINUOUS TEA ROLLING MACHINE.

Applicant: TEA RESEARCH ASSOCIATION, OF ROYAL EXCHANGE, 6 NETAJI SUBHAS ROAD, CALCUTTA-1, WEST BENGAL, INDIA.

Inventor: TORUN CHANDRA BORUAH.

Application No. 574/Cal/73 filed May 27, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A device for varying and controlling pressure on withered tea leaves processed in a continuous tea rolling machine having a rotating or oscillating roller or rotor within a stationary or reciprocating cylinder or barrel comprising an annular or ring shaped pressure cap slidably mounted on the end of the rotor or roller near the discharge end of the machine, means for adjusting the position of the cap along the roller or rotor and means for applying variable force on the pressure cap, the pressure cap being adapted to constrict the passage of tea leaves through the said discharge end such constriction being variable by varying the position of the pressure cap on the roller or rotor.

Prov. Specn. 5 Pages. Comp. Specn. 12 Pages. Drg. 8 Sheets.

CLASS 167D.

149387.

Int. Cl.-B01d 45/00.

**AN APPARATUS FOR SEPARATING POWDERY GRANULAR AND FLAKEY MATERIALS.**

*Applicant* : DEVELOPMENT CONSULTANTS PRIVATE LIMITED, OF 24-B, PARK STREET, P.O. PARK STREET, CALCUTTA-700 016, STATE OF WEST BENGAL, INDIA.

*Inventors* : PRANAB KUMAR DAS AND DILIP KUMAR SAHA.

Application No. 1006/Cal/78 filed September 14, 1978.

Complete Specification left September 14, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

The gate 12 between the upper and lower chambers 9 and 10 of the primary separator 1 is open, the gate 29 between the upper and lower chambers 26 and 27 of the secondary separator 2 is also open; the gates 20 and 30 at the bottom of the primary and secondary separators 1 and 2 are closed; the valves 37, 37 between the lower chambers 10 and 27 of both the primary and secondary separators 1 and 2 and the outgoing line 40 of the conveying air are open; and the valves 37, 37 between the common bottom chamber 3 and the lower chambers 10 and 27 of the primary and secondary separators 1 and 2 are closed. In this position, the material entering into the primary and the secondary separators 1 and 2, get separated from the conveying air by centrifugal action and get collected in the lower chambers 10 and 27 of the said primary and the secondary separators 1 and 2.

Comp. Specn. 31 Pages.

Drg. 1 Sheet.

CLASS 42A<sup>2</sup>.

149388.

Int. Cl. A24c 5/50.

**A PROCESS FOR THE MANUFACTURE OF A SMOKE FILTER AND A SMOKE FILTER MANUFACTURED BY THE SAID PROCESS.**

*Applicant & Inventor* : (MRS.) PRABHA PANDE, 342, RAJA MAHAL VILAS EXTENSION, 14TH MAIN, 8TH CROSS, BANGALORE-560 006, KARNATAKA.

Application No. 66/Mas/70 filed April 26, 1979.

Complete specification left June 5, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims. No drawing

A process for the manufacture of a smoke filter comprising the steps of subjecting fibres such as herein described to an opening process and carding them thereafter characterised by blending the said fibres before the said opening and carding process and heating the carded sliver to a predetermined temperature dependent on the nature of the blended fibres so as to cause differential melting of the fibrous content thereof to cause adhesion or bonding therebetween; and preparing by known means filter plugs from the said sliver and thereafter heating the said plugs in an oven to complete curing.

Prov. 5 Pages; Com. 6 pages.

CLASS 107 (L&G)

Int. Cl. F02p 15/06.

**AN INTERNAL COMBUSTION ENGINE.**

*Applicant* : INDIAN INSTITUTE OF TECHNOLOGY, I.I.T. P.O., MADRAS-600 036, TAMIL NADU.

*Inventors* : (1) DR. BENDIGANVALE SRINIVASA MURTHY.

(2) DR. KADAYAM VENKATRAM GOPALAKRISHNAN.

Application No. 73/Mas/79 filed May 2, 1979.

Complete specification left May 21, 1979.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

An internal combustion engine of the compression ignition type for use with one or more fuels such as herein described comprising the known cylinder and piston assembly, characterised by a combustion chamber communicating with the cylinder and provided with a fuel injector for receiving the spray of fuel therein, the surface of at least a part of the inner wall of the said chamber being provided with insulating means on which heating means are disposed, the said injector being located such that at least a part of the said spray impinges on the said surface to initiate ignition thereof and the heating means being shut off after the surface is self-maintained at a temperature sufficient for continued ignition of the injected fuel.

Prov. 6 pages; Com. 10 pages; Draw 1 sheet.

CLASS 86B

Int. Cl. A61g 1/00.

149390.

**RESCUE STRETCHER**

*Applicant & Inventor* : RAMASUBBU GANESAN, P.B. 2404, BHARATHI ROAD, COIMBATORE-9, TAMIL NADU.

Application No. 120/Mas/79 filed June 29, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

1 Claim

A rescue stretcher comprising an assembly of a leg unit, a trunk unit and a head unit—the leg unit consisting of a top frame, U-shaped and bent through an angle at the closed-end, welded to a channel-shaped support frame; a base, having a plurality of perforations, shaped to fit the contour of the support frame being welded to the said support frame, and the trunk unit consisting of a pair of top frames, U-shaped, welded to a channel-shaped support frame, a base having a plurality of perforations shaped to fit contour of the support frame being welded to the said support frame, a vertical frame, U-shaped and bent at an angle at the closed-end being welded to the said support frame, and the head unit consisting of a top frame, rectangular and with both ends bent at an angle, welded to a channel-shaped support frame, a base, having a plurality of perforations, shaped to fit the contour of the support frame, being welded to the said support frame—in which the said trunk unit is secured at one end to one end of the said leg unit and at the other end to one end of the said head unit by means of pins inserted in the holes provided in brackets fixed on the said trunk unit so as to form a rescue stretcher, and a plurality of wires or ropes fastened to the top frames of the said units and to the vertical frame on the trunk unit.

Com. 8 pages; Drwgs. 4 sheets.

CLASS 154B & F

Int. Cl. B41f 13/14 & B 41f 31/06.

149391.

**A PRINTING MACHINE**

*Applicant* : PRINT MAC. 430, AVENUE ROAD, PATHI MARKET, IIND FLOOR, BANGALORE-560-002, KARNATAKA.

*Inventor* : AGYA SINGH DHAUL.

Application No. 131/Mas/79 filed July 9, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims.

A printing machine comprising a printing cylinder having integral shafts on its opposite sides mounted in eccentric bearings in a frame, means for adjusting and locking the bearings, a pressure roller between which and the printing cylinder the material to be printed upon is adapted to be passed, the printing cylinder being adapted to receive a stereo having the matter to be printed formed on it, means for feeding the said material to the printing cylinder and the pressure roller, an inking mechanism for supplying ink to the stereo and means for moving the inking mechanism towards or away

from the printing cylinder and means for varying the quantity of ink supplied to the stereo, and/or accommodating stereos of different thickness or materials.

Com. 10 pages; Drwgs. 2 sheets.

CLASS 126 (C & D)

149392.

Int. Cl. G01r 19/16

#### A LOW VOLTAGE INDICATOR

*Applicant*: INDIAN INSTITUTE OF SCIENCE, BANGALORE-560 012, KARNATAKA.

*Inventor*: MANDAVILLI SATYAM.

Application No. 135/Mas/79 filed July 23, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 4 Claims

A low voltage indicator comprising a first and a second tin oxide coated glass plates, the said plates being fixed to a member spaced from each other and having a mixture of solutions of potassium bromide and diheptyl viologen bromide in the space bounded by the plates and the said member, one of said plates being used as a cathode, having two terminals and the other of said plate serving as the anode having a single terminal.

Com. 7 pages; Drags. 1 sheet.

CLASS 32F+c 55E.

149393.

Int. Cl.-C07c 85/00, 91/00.

A PROCESS FOR THE PRODUCTION OF [1, 1-DITHIEN- (3)-YL-(1)-PROPEN- (3) -YL-]- [1-PHENYL-1-HYDROXY-(2) PROPYL]-AMINE.

*Applicant*: DEUTSCHE GOLD UND SILBER SCHEIDANSTATLT VORMALS ROESSIER, OF 9 WEISSFRAUENSTRASSE OF D-6000 FRANKFURT 1, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: DR. AXEL KLEEMANN, REINHOLD KIEL AND INGOMAR NUBERT.

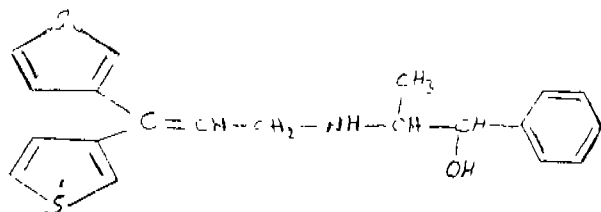
Application No. 849/Cal/79 filed August 16, 1979.

Division of Application No. 1725/Cal/77 filed December 13, 1977.

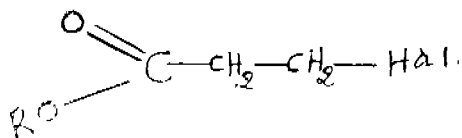
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims.

A process for the production of a compound of the formula IA.

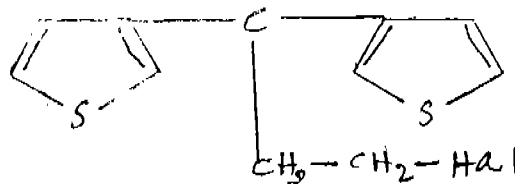


and the acid salt thereof, which comprises condensing thein-(3)-yl lithium with a fr-halogen propinoic acid alkyl-ester corresponding to the formula II.



in which R is a lower saturated aliphatic alkyl group having 1 to 6 carbon atoms and Hal is chlorine, bromine or iodine, in an inert medium at a temperature below  $-50^{\circ}\text{C}$ ,

after which the resulting compound corresponding to the formula III.



in which Hal is chlorine, bromine or iodine, is reacted with 2-amino-1-hydroxy-1-pheny-propane in an inert medium in the presence of a conventional basic compound such as triethy lamine and then dehydrating in a know manner with or without isolation purification the saturated compound thus obtained having the formula 1 to obtain the unsaturated compound of formula IA, the acid salt being prepared in a known manner per-se.

Com. Specn. 21 Pages.

Drg. 2 Sheets.

CLASS 24B

Int. Cl. F16d 65/12

149394.

#### A VEHICLE DISC BRAKE ASSEMBLY.

*Applicant*: LUCAS INDUSTRIES LTD., GREAT KING STREET, BIRMINGHAM-19, ENGLAND.

*Inventor*: ALAN PETER BRADLEY.

Application No. 29/Mas/80 filed February 8, 1980.

Convention date: 26-2-1979 (No. 7906687 United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

#### 5 Claims

A vehicle disc brake assembly comprising a support structure including a cylinder body housing a brake actuating piston, a brake pad assembly with which the piston has thrust transmitting engagement during brake application, and a retaining plate arranged between the pad assembly and the piston to prevent inadvertent removal of the pad assembly, wherein the plate has a pad engaging portion or portions detachably engageable with the brake pad assembly and a piston engaging portion detachably engageable with the brake piston, the latter portion being resiliently displaceable, relative to the remainder of the plate, to permit disengagement of the plate from the piston and movement of the pad assembly and plate together clear of the support structure.

Com. 7 pages; Drwgs. 1 sheet of size 33.00 cms. x 41.00 cms.

CLASS 95(K&H) & 105B

149395.

Int. Cl. B25b 23/14.

#### AN IMPROVED TORQUE METER

*Applicants & Inventors*: PILLAPALAYAM NARASIMHACHARI MURALIDHARAN & ADHYAM, VENKANACHAR SUNDARA RAJAN, F-1, 'FAITH', APOLLO AVENUE, BESANT NAGAR, MADRAS-600 090, TAMIL NADU.

Application No. 33/Mas/80 filed February 19, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 13 Claims

An improved torque meter for tightening threaded fasteners such as bolts to any desired amount of torque comprising an effort member and a torque member one end of the said effort member being provided with an arrangement to locate a handle means for applying effort, while said torque

member is provided with a torque transmitting member for transmission of torque; a housing having a hydraulic chamber of predetermined cross-sectional area filled with hydraulic fluid, said hydraulic chamber being provided with at least one piston so as to ensure that the pressure exerted on the said hydraulic fluid by the force applied on the said effort member is measured by a pressure gauge connected to said hydraulic chamber; and a means for retaining said effort member and said torque member together.

(Com. 10 pages; Drwgs. 1 sheet).

CLASS 28E.

149396.

Int. Cl.-F23d 1/00.

# AN APPARATUS FOR THE BURNING OF A PULVERIZED COAL.

*Applicant*: COMBUSTION ENGINEERING, INC., OF PROSPECT HILL ROAD, WINDSOR, STATE OF CONNECTICUT, UNITED STATES OF AMERICA.

*Inventors*: DONALD ARTHUR SMITH AND MARTIN EDWARD SMIRLOCK.

Application No. 185/Cal/78 filed February 17, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

An apparatus for the burning of a pulverized coal in a predetermined combustion area which has not been preheated comprising delivery means for delivering a fuel stream consisting essentially of mixture pulverized coal and air into the combustion area, an ignition source positioned in the combustion area for igniting the fuel stream, circulation means for causing recirculation of hot combustion products back into the combustion area.

Comp. Specn. 12 Pages.

Drg. 1 Sheet.

CLASS 32Fb.

149397.

Int. Cl.-A01n 23/00, 9/22.

# PROCESS FOR PREPARATION OF MORPHOLINE DERIVATIVES.

*Applicant*: BASF AKTIENGESellschaft, AT 6700 LUDWIGSHAFEN, FEDERAL REPUBLIC OF GERMANY.

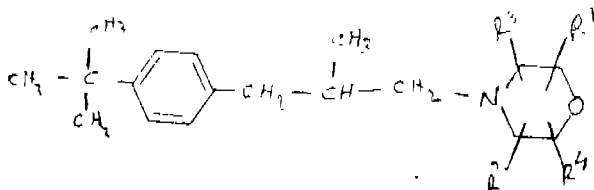
*Inventors*: WALTER HIMMELE, ERNST-HEINRICH POMMER AND NORBERT GOETZ.

Application No. 499/Cal/78 filed May 9, 1978.

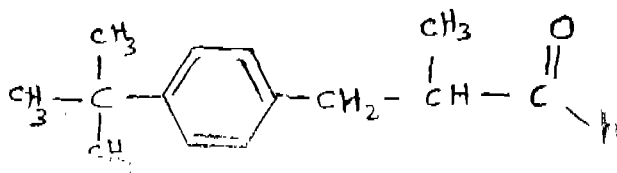
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

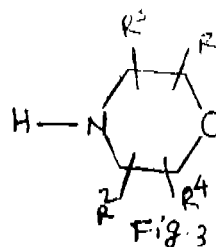
A process for preparing morpholine derivatives of the formula shown in figure I.



wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  denote hydrogen, methyl or ethyl and their salts, molecular compounds or adducts thereof, such as herein defined wherein 3-*p*-tert-butylphenyl-2-methylpropanol of the formula shown in figure II.



is reacted with a morpholine of the formula shown in figure 3.



wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  have the above meanings, in the presence of formic acid as diluent at temperatures of from 50° to 110°C.

Comp. Specn. 15 Pages.

Drg. 2 Sheets.

CLASS 33D.

149398.

Int. Cl.-B22d 37/00

# A SLIDING GATE ARRANGEMENT FOR THE TAPHOLE OF A METALLURGICAL VESSEL OR FURNACE.

*Applicant*: STÖPING AKTIENGESellschaft, BARERSTRASSE 43 6300 ZUG/ SWITZERLAND.

*Inventor*: MEIER ERNST.

Application No. 595/Cal/78 filed June 1, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims.

A sliding gate arrangement for the taphole of a metallurgical vessel or furnace, particularly for tilting converters, comprising a nipple on the vessel surrounding the taphole and provided with a flange carrying an annular plate forming an external cover for the refractory lining of the nipple, the flange being provided with locating and fastening means and the annular plate with centering means for the mounting frame of the sliding gate, the mounting frame carrying locating and fastening means whereby a preassembled din gate assembly containing the wearing refractory parts can be attached to the mounting frame.

Comp. Specn. 14 Pages.

Drg. 3 Sheets.

CLASS 47A & B.

149399.

Int. Cl.-C10j 1/00, 3/00.

# A COAL GASIFIER AND A METHOD OF OBTAINING ENRICHED HEATING GAS THEREFROM.

*Applicant*: COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR \* CONNECTICUT, U.S.A.

*Inventors*: HENRY JOHN BLASKOWSKI AND ARUN KUMAR MEHTA.

Application No. 604/Cal/78 filed June 2, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A coal gasifier for obtaining an enriched heating gas having the maximum reasonable heating value by gasifying coal in suspension comprising a gasifier vessel for flow of gases therethrough, said gasifier vessel having a combustion zone, a reductor zone and a low temperature devolatilization zone as contiguous volumes in the direction of flow; means for introducing oxygen and char to said gasifier vessel; means for introducing coal at an upstream location in said low temperature devolatilization zone; means for removing char from gases leaving said vessel; means for introducing and removed char to the combustion zone; means for introducing a carbon containing material to an upstream location in said reductor zone; a first means for sensing the temperature of gases leaving said low temperature devolatilization zone; and

means responsive to said first means for regulating the amount of coal introduced to the upstream location in said devolatilization zone.

Comp. Spec. 11 Pages. Drg. 1 Sheet.  
CLASS 164A & C. 149400.  
Int. Cl.-C02c 1/02.

PROCESS AND EQUIPMENT FOR PRODUCING BIOMASS UTILIZABLE AS FODDER BY THE UTILIZATION OF ANAEROBIC DIGESTED SEWAGE SLUDGE FORMED MAINLY IN THE COURSE OF COMMUNAL PURIFICATION OF SEWAGE CONTAINING ORGANIC IMPURITIES.

*Applicant*: RICHTER GFDEON VEGYESZETI GYAR RT., OF GYOMROI U. 19-21, BUDAPEST X, HUNGARY.

*Inventors*: SZEMLER LASZLO, BERES BELA, HARGITTAI GABORNE, UDVARDY-NAGY ISTVANNENO SZEKELY DENES.

Application No. 932/Cal/78 filed August 24, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 25 Claims.

Process for producing biomass utilizable as fodder, by the utilization as fodder, by the utilization of aerobic digested sewage sludge formed mainly in the course of communal purification of sewage containing organic impurities characterized in that (a) the digested sewage sludge is heat treated by heating it to at least 80°C, preferably to 0-150°C temperature, then optionally cooling down to 80-40°C temperature, (b) the heat treated digested sewage sludge is optionally separated in the presence of a coagulant to sludge concentrate and supernatant, (c) a culture medium is formed by adding to the supernatant an alcohol having 1-3 carbon atoms, preferably methanol, at least one nitrogen containing inorganic salt, optionally precursor(s) of vitamin(s) soluble in water, as well as growth factors, (d) the culture medium is inoculated with anaerobic digested sewage sludge (e) the inoculated culture medium is fermented at 26-38°C temperature by anaerobe method, (f) biomass is separated from the fermentation liquid formed during the fermentation.

Comp. Specn. 33 Pages. Drg. 2 Sheets.  
CLASS 31C. 149401.  
Int. Cl.-H01c 7/00, 9/00.

APPARATUS AND METHOD FOR DEPOSITION OF SEMI-CONDUCTOR MATERIAL.

*Applicant*: SIEMENS AKTIENGESSELLSCHAFT OF BERLIN AND MUNICH, WEST GERMANY.

*Inventors*: ULRICH RICHARD GERHARD BAROWSKI.

Application No. 958/Cal/78 filed August 31, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 15 Claims.

Apparatus for the deposition of semiconductor material on at least one heated carrier from an appropriate reaction gas, comprising a flat base plate and aquartz, glass, rotisil or steel bell placed on the base plate to form a gas-tight seal therewith, said base plate being provided with apertures for supplying and discharging the reaction gas and supports for the carrier or carriers, the said base plate is also provided with opening to receive a tube carrying an observation window.

Comp. Specn. 14 Pages. Drg. 2 Sheets.  
CLASS 173B. 149402.  
Int. Cl.-B05b 3/04.

APPARATUS FOR THE HEAT-MASS EXCHANGE PROCESSES WITH PARTICIPATION OF LIQUID.

*Applicant & Inventor*: ALEXANDR VLADIMIROVICH SHAFRANOVSKY, OF OBLAST. BALASHIKHA, MOLODEZHNAJA ULITSA, 4 MOSKOVSKAYA, USSR, (2) VIKTOR MARKOVICH OLEVSKY, OF LENINGRADSKY PROSPEKT, 75-A, KV. 91, MOSCOW, USSR, (3) VLADI-

MIR KAZIMIROVICH CHUBUKOV, OF KOMSOMOLSKY PROSPEKT, 41, KV. 97, MOSCOW, USSR AND (4) JURY ALEXANDROVICH BASKOV, OF SHOSSE ENTUZIASTOV, 56 156, KV. 20, MOSCOW, USSR.

Application No. 1207/Cal/78 filed November 8, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims.

An apparatus for heat-mass exchange processes with participation of a liquid comprising a casing with means for admitting the source materials which take part in the process and for discharging the final products, at least one sprinkling device installed in the casing with a provision for rotating around its on axis and consisting of chutes curved into a multiple-start spiral diverging from the axis of the device, the coils of said spiral spaced at certain distances from one another wherein at least the peripheral portions of at least two chutes gradually receding from the axis of the sprinkling device are displaced in the direction parallel to the axis of the sprinkling device so that the peripheral ends of the chutes are located in different planes which are perpendicular to the axis of the sprinkling device, and also comprising a means for delivering a liquid to the central portion of the sprinkling device.

Comp. Specn. 28 Specn. Drg. 3 Sheets.  
CLASS 32F2a & F2c & 55D2. 149403.  
Int. Cl.-A01n 9/00, C07c 155/08.

PROCESS FOR PRODUCTION THIOLCARBAMATES.

*Applicant*: IHARA CHEMICAL INDUSTRY CO. LTD., OF 4-26, IKENOHATA 1-CHOME, TAITOH-KU, TOKYO, JAPAN.

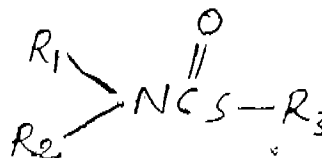
*Inventors*: ZENICHI SATO, FUMIYA TABUCHI., KEI-CHIRO TAKAGI AND YOJI IMAMIYA.

Application No. 1128/Cal/78 filed October 18, 1978.

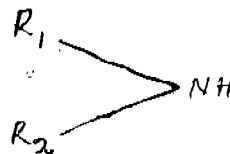
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims.

A process for producing a thiocarbamate having the formula



wherein R1 and R2 are the same or different and respectively represent an alkyl, alkoxy, alkenyl, cycloalkyl, hydroxy-alkyl, phenyl or benzyl group and R1 and R2 can form a ring by binding each other with or without oxygen atom; and R3 represents a lower alkyl or benzyl group or a substituted benzyl group having one or two substituent of halogen atom, alkyl, alkoxy, alkylthio, nitro or cyano group, which comprises reacting carbonyl sulfide with a sec-amine having the formula I.



wherein R1 and R2 are defined above, in an aqueous medium at a temperature lower than 80°C and at a molar ratio of carbonyl sulfide to sec-amine of less than 0.5 to obtain an aqueous solution of an amine salt of thiocarbamic acid and then reacting a halogenated hydrocarbon having the X-R3 wherein R3 is defined above and X represents a halogen atom, with the amine salt in an aqueous medium as heterogeneous reaction at a temperature in the range of 0 to 80°C, water

being added so as to obtain 40 to 80% of a concentration of the amine salt of thiocarbamic acid (III) in the aqueous solution in the first reaction.

Comp. Specn. 22 Pages. Drg. 6 Sheets.  
CLASS 32F4b & 55E. 149404.  
Int. Cl.-C07d 99/00, A61k/00.

#### PROCESS FOR THE PREPARATION OF RIFAMPICIN.

*Applicant* : HOLCO INVESTMENT INC., OF CALLE 36, NO. 5-16, PANAMA.

*Inventor* : TIBERIO BRUZZESE.

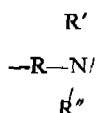
& Application No. 1275/Cay/78 filed November, 25, 1978.

Convention date November 25, 1977/(49148/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims. No drawings.

A process for the preparation of rifampicin, which comprises reacting rifamycin S with a 1, 3, 5-trisubstituted hexahydro-1, 3, 5-triazine, the substituents being alkyl radicals containing up to 6 carbon atoms or being radicals of the general formula :—



in which R is an alkylene radical containing up to 3 carbon atoms and R' and R'', which can be the same or different, are alkyl radicals containing up to 3 carbon atoms or R' and R'', together with the nitrogen atom to which they are attached, or R and R', together with the nitrogen atom to which they are attached, form a cyclic structure, in an aprotic dipolar solvent at a temperature varying from 20 to 100°C to give a 3-substituted 1, 3-oxazino (5, 6-c) rifamycin which is then reacted with 1-amino-4-methylpiperazine while keeping the pH in the range of from 5 to 7, to give rifampicin.

Comp. Specn. 26 Pages. Drgs. Nil.  
CLASS 36A. 149405.  
Int. Cl.-F04b 9/00.

#### SELF-PRIMING CENTRIFUGAL PUMP.

*Applicant* : SIHI GMBH & CO. KG, LINDENSTRASSE 170, 2210 ITZEHOE, HOLSTEIN, WEST GERMANY.

*Inventors* : PETER FANDREY AND HERMANN MULLER.

Application No. 1370/Cal/78 filed December 23, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A self-priming centrifugal pump with at least one fully loaded turbine stage (4, 1, 7) with a horizontal shaft (5) and priming stage (14, 12, 13) that is mounted rigidly on the same shaft in the manner of a side channel or liquid ring pump, the supply from which to the pump can, in normal operation, be shut off and the section side of which is connected through a first, permanently open port (24) with a first, suction side area of the fully loaded stage in which gas that is to be drawn off collects, characterized in that the suction side of the priming stage (12, 13, 14) is connected through a second, permanently open port (21, 23) with a second area of the fully loaded turbine stage which, during normal operation, is at a higher pressure than the first area, whereby loothports (24, 21, 23) are so designed that in normal operation a stream of liquid that is sufficient to cool the priming stage flows from the second area of the fully loaded turbine stage to the suction side of the printing stage and from there to the first area of the fully loaded turbine stage.

Comp. Specn. 15 Pages. Drg. 1 Sheet.  
CLASS 85F. 149406.

Int. Cl.-F23h 1/00.

#### GRATE COVERING FOR MECHANICALLY MOVED STEP-SHAPED FURNACE GRATES OF LARGE FURNACES.

*Applicant* : JOSEF MARTIN FEUERUNGSBAU GMBH, LEOPOLDSTRASSE 248, 8000 MUNICHEN 40, FEDERAL REPUBLIC OF GERMANY.

*Inventors* : DR. ING. JOHANNES JOSEF MARTIN, DIPL. ING. WALTER JOSEF MARTIN, ERICH WEBER.

Application No. 132/Cal/79 filed February 13, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

Grate covering for mechanically moved step-shaped furnace grates of large furnaces, in which several grate bars lie movably relative to one another in the individual stages and are cotted together in transverse direction by projecting abutments, which are led through openings in the outside ribs of the neighbouring bars and bear against the inside of the outside rib, characterised thereby, that two abutments (10; 27; 42; 51) are arranged at each of the ends of a cotter pin (9; 26; 41; 49) and together with this form a clasp (8; 25; 40; 48), wherein the cotter pin passes through an elongate slot (20; 31; 46; 56), appropriate to the relative displacement of the grate bar (2), of a grate bar (2) movable relatively to its neighbouring bars (2) and by its abutments (10; 27; 42; 51) respectively co-operates with the grate bars (1) which are provided to both sides of the movable grate bars (2) and stationary within the respective grate state.

Comp. Specn. 20 Pages. Drg. 7 Sheets.  
CLASS 39C. 149407.  
Int. Cl.-C01c 1/00.

#### A PROCESS FOR SYNTHESIZING AMMONIA FROM HYDROGEN AND NITROGEN.

*Applicant* : MONSANTO COMPANY, OF 800 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI 63166, UNITED STATES OF AMERICA.

*Inventor* : ELI (NMN) PERRY.

Application No. 233/Cal/79 filed March 9, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims.

A process for synthesizing ammonia from hydrogen and nitrogen comprising introducing to and reacting in an ammonia synthesis reaction zone a nitrogen and hydrogen containing reactor feed gas at a superatmospheric synthesis pressure to produce ammonia; withdrawing an ammonia-containing reaction effluent from said ammonia synthesis reaction zone and recycling said reaction effluent to said ammonia synthesis reaction zone in an ammonia synthesis loop; introducing a synthesis feed gas into said ammonia synthesis loop, said synthesis feed gas being at substantially said superatmospheric synthesis pressure and comprising nitrogen, hydrogen, and inert contaminants comprising at least one of methane and argon; removing ammonia from the reaction effluent in said ammonia synthesis loop in an amount purge stream from said ammonia synthesis loop in an amount sufficient to maintain the volume percent of inert contaminants in the reactor feed gas less than out 25 volume percent; contacting said purge stream with a separation membrane, said separation membrane having a feed side and a permeate exit side at a lower total pressure and exhibiting selective permeation of hydrogen as compared to the permeation of each of methane and argon and exhibiting permeability of ammonia; permeating through and recovering from the permeate exit side of said separation membrane a permeating gas comprising hydrogen; moving from the feed side of said separation membrane a non-permeating gas; and combining said permeating gas with a gas passing to



said ammonia synthesis zone, characterized in that the purge stream is at substantially said superatmospheric pressure and contains ammonia; ammonia is removed from said purge stream prior to contacting said separation membrane to provide a purge stream containing less than about 0.5 volume percent ammonia; said purge stream having an ammonia concentration of less than about 0.5 volume percent is contacted with said separation membrane at a pressure of at least about 80 atmospheres absolute; at least about 20 percent of the hydrogen in said purge stream permeates said separation membrane; and the permeating gas is maintained at a pressure of substantially at least said total pressure said permeate exit side of the separation membrane and combined with a gas passing to said ammonia synthesis reaction zone.

Comp. Specn. 33 Pages.

Drg. 2 Sheets.

CLASS 32F**b**.

149408.

Int. Cl.-A01n 9/20, C07c 161/00, C07c 63/10.

## PROCESS FOR THE MANUFACTURE OF DITHIENYL ALKYL HALIDES.

*Applicant*: DEUTSCHE GOLD-UND SILBER SCHEIDANSTALT VORMALS ROESSLER, OF 9, WEISSFRAUENSTRASSE, FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.

*Inventors*: DR. AXEL KLEEMANN, INGOMAR NUBERT, FRITZ STROMAN, DR. KLAUS THIEMER.

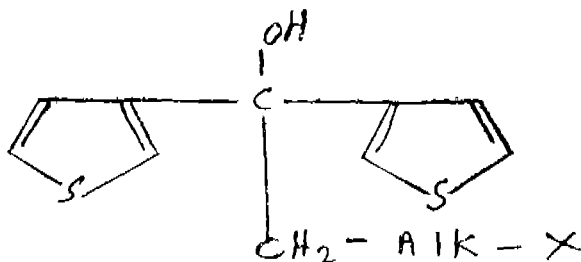
Application No. 92/Cal/80 filed January 25, 1980.

Division of Application No. 35/Cal/78 filed January 11, 1978.

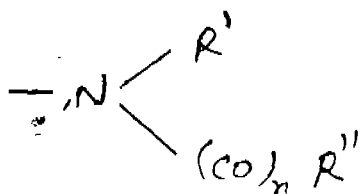
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

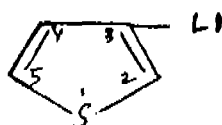
A process for the manufacture of dithienyl alkyl amino compounds of formula I.



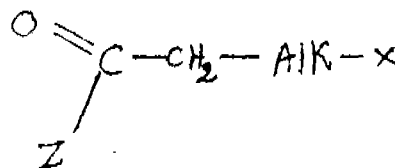
wherein AIK stands for straight or branched  $C_1$  to  $C_6$  alkylene group and X stands for the radical of formula V.



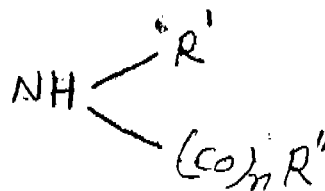
wherein  $R'$  stands for H or alkyl or aralkyl where alkyl or aralkyl have upto 6 carbon-atoms, and  $R''$  stands for alkyl or aralkyl wherein alkyl can have upto 6 carbon atoms, and  $n$  stands for numeral 0 or 1 which comprise reacting a thienyl lithium compound of formula III.



wherein Li indicates the lithium radical, with a compound of formula II



where AIK is as defined before, X stands for a halogen like chlorine, bromine and iodine and Z stands for the lower alkoxy group, chlorine, bromine, iodine or a thienyl radical, the said reaction being carried out in an inert medium at temperatures below  $-50^\circ\text{C}$ , whereafter the halogen compounds thus obtained is reacted with a compound of formula IV.



wherein  $R'$ ,  $R''$  and  $n$  are as defined before.

Comp. Specn. 8 Pages.

Drg. 2 Sheets.

CLASS 145C.

149409.

Int. Cl.-D21h 3/22, 3/78.

## A PROCESS FOR THE PRODUCTION OF MATRIX BOARDS AND MATRIX BOARDS SO PREPARED.

*Applicant & Inventor*: MR. RISHABH KUMAR JAIN, OF 0-1, KALINDI COLONY, RING ROAD, NEW DELHI-110014, INDIA.

Application No. 219/Del/77 filed September 2, 1977.

Complete Specification left September 20, 1978.

Cognate with Application Nos. 232/Del/77 & 667/Del/78 filed 2-9-1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

13 Claims. No drawings.

A process for the manufacture of stereoflong matrix boards comprising preparing a cellulosic pulp in a conventional manner from cellulosic wastes such as bamboo, cotton rags, and pine subjecting the said cellulosic pulp a beating operation for a period of time longer than the conventional beating duration, adding clay and binder to the said beaten pulp, followed by controlling the pH of the so obtained mixture to a value of about 4.5 by the addition of alum, thereafter forming the board in a conventional manner and then applying thereto a coating composition consisting of zinc stearate, talc, clay and arboxy methyl cellulose or starch or case in the ratios of 0.4 : 0.6 : 1 : 1 to 1.45 : 1.5 : 1.6 : 1 and, finally, applying thereto a surface protection aqueous composition consisting of a precipitating agent such as alum.

Prov. Specn. 16 Pages. Comp. Specn. 12 Pages. Drg. Nil.

CLASS 27B.

149410.

Int. Cl.-E02f 5/30.

## A COMPACT DEVICE FOR THE SIMULTANEOUSLY MEASURING THE SETTLEMENT CHARACTERISTICS OF BUILDING AND LIKE CIVIL ENGINEERING STRUCTURES.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA.

**Inventors :** SHRI TOPUR KRISHNASWAMY NATARAJAN, DR. RAJENDRA KUMAR BHANDARI, DR. BALRAJ MALHOTRA, SHRI KARTAR SINGH AND SHRI SARUP SINGH RUP.

Application No. 228/Del/77 filed September 8, 1977.

Complete Specification left September 8, 1978.

Appropriate office for opposition Proceedings (Rule 4. Patents Rules, 1972) Patent Office, Delhi Branch.

### 3 Claims.

A compact device for simultaneously measuring the settlement characteristics of buildings and like civil engineering structures comprising a set of base plates, to be fixed at desired parts of the buildings, the said base plates having mounted thereon, a water-level, a tiltmeter and means to measure crack-width developing in the structure over a desired time interval, wherein the tiltmeter consists of a freely suspended verticle pointer fixed on each of said plates and movable on an angular scale rigidly fixed with said each plate.

Prov. Specn. 14 Pages. Comp. Specn. 10 Pages. Drg. 2 Sheets.

### PATENT SEALED

147167 147390 148038 148071 148106 148269 148270 148486  
148487 148488 148489 148492 148493 148496 148503 148504  
148508.

### AMENDMENT PROCEEDINGS UNDER SECTION 57.

Notice is hereby given that Monsanto Company, a Corporation of the State of Delaware, United States of America, of 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, United States of America have made an application under section 57 of the patents Act, 1970 for amendment of complete specification of their application for patent No. 147738 for "Multi-Component membranes comprising a porous separation membrane for gas separation and processes for gas separations using the multicomponent membranes." The amendments are by way of correction explanation and disclaimer. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification, at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

The amendments proposed by Demag Aktiengesellschaft, a body corporate organised according to the laws of the Federal Republic of Germany of 41-Duisburg 1, Wolfgang-Reuter-Platz, Federal Republic of Germany in respect of application No. 148346 as advertised in Part III, Section 2 of the Gazette of India dated the 13th June, 1981 have been allowed.

### PATENTS DEEMED TO BE ENDORSED WITH

#### THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No.	Title of the invention
(1)	(2)
142330 (19-06-75)	Process and apparatus for the gasification of oil.
142628 (19-11-75)	Improvement in or relating to electrolytic stripping of defective nickel electrodeposits from copper or brass substrates.
143014 (27-01-75)	A process for the manufacture of anti-friction polymeric material objects.

(1)	(2)
143124 (20-10-75)	A process for production of substantially ash free or low ash electrode grade coke or petroleum coke substitute from coal tar pitch or coal extract.
143193 (06-11-74)	Process for the purification of water by distillation and apparatus for carrying out it.
143438 (15-01-75)	Method for continuous hydrolysis of material and apparatus for

### RENEWAL FEES PAID

107944	107958	108042	108068	110280	112989	113209	113508
113509	113761	118390	118463	118543	118558	118563	118566
118581	118750	118753	118779	118811	118867	118879	118955
122728	123708	124057	124074	124107	124180	124222	124357
124502	124517	127654	128792	129104	129167	129212	129257
129329	129330	129334	129383	129386	129413	129428	129607
133356	133432	133434	133496	133497	133504	133530	133560
133562	133595	133599	133733	133734	133776	133782	133787
133799	133801	136508	136514	136533	136534	136552	136655
136705	136706	136838	136945	136963	137057	137077	137103
137160	137161	137240	137255	137328	137391	137433	137434
137454	137490	137617	137663	137936	138009	138335	138391
138496	138520	138563	139161	139217	139417	139432	139555
139920	140062	140080	140589	140601	140713	140948	141204
141211	141219	141426	141488	141522	141589	141793	142312
142374	142433	142493	142557	142594	142610	142905	142983
143193	143391	143447	143925	144252	144271	144409	144619
145263	145408	145471	145514	145549	145845	145860	145876
146052	146293	146294	146452	146481	146514	146540	146605
146676	146854	147061	147064	147099	147177	147313	147335
147770	147779	148291	148334	148349	148368		

### CESSATION OF PATENTS

100112	100120	100127	100136	100158	100238	100255	100264
100288	100293	100317	100340	100343	100345	100351	100380
144036	100441	100468	100536	100557	100599	100648	100670
100682	100703	100708	100717	100722	100730	100744	100745
100752	100760	100785	100810	109465	110416	120359	128610
130349	136075	140997	142233	144095	145936	145995	147096

### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

- Class 1. No. 150152. Mrs. Flory Nazareth Baptista, Indian National of 43, Old Police Station Road, Vile Parle (West), Bombay-400 056, State of Maharashtra, India. "Control Valve". November 25, 1980.
- Class 1. No. 150153. Mrs. Flory Nazareth Baptista, Indian National of 43, Old Police Station Road, Vile Parle (West), Bombay-400 056, State of Maharashtra, India "Flush Valve". November 25, 1980.
- Class 1. No. 150154. Mrs. Flory Nazareth Baptista, Indian National of 43, Old Police Station Road, Vile Parle (West), Bombay-400 056, State of Maharashtra, India. "Flush Valve." November 25, 1980.
- Class 1. No. 150229. Amar Brothers & Company of 714-A, Mahrauli Road, Gurgaon-122001, Haryana, India, a proprietary firm. "Pressure Cooker". December 18, 1980.
- Class 1. No. 150261. Victor Scientific Industries of 6332, Punjabi Mohalla, Amballa Cantt. Haryana, a partnership firm. "Burette Clamp". December 31, 1980.

Class 1. No. 150353. N. J. Industries of P-98, Bali Nagar, New Delhi-110015, Union Territory of India, a partnership concern. "Handle Bracket". February 2, 1981.

Class 1. No. 150496. Meenu Equipments, an Indian Partnership Firm of Site No. 2, Balaji Nagar, Avarampalayam Road, Pappanaickenpalayam, Coimbatore-641018, Tamil Nadu, India, "Mixer". March 2, 1981.

Class 1. No. 150680. Peico Electronics & Electricals Limited of Shivsagar Estate, Block "A", Dr. Annie Besant

Road, Worli, Bombay 18 (WB), Maharashtra, India. "Television". April 16, 1981.

Class 31. No. 150091. Geep Industrial Syndicate Limited of 28-South Road, Allahabad, Uttar Pradesh, India, an Indian Company "Switch". October 28, 1980.

Class 3. No. 150155. Tobu Enterprises Private Limited of 8/29, Kirti Nagar Industrial Area, New Delhi-110 015, India, an Indian Company. "Seat for Tri-cycle". November 26, 1980.

S. VEDARAMAN,  
Controller General of Patents, Designs  
and Trade Marks.

